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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 4

Complete if Known

Application Number	10/004,867
Filing Date	December 7, 2001
First Named Inventor	Serge Beaudoin, et al.
Group Art Unit	1644 1624
Examiner Name	TBA
Attorney Docket Number	4208.00034

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U.S. PATENT DOCUMENTS

Class / subclass

Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
TNT	✓	US- 2,298,443	10-1942	Weissberger	35/6
	✓	US- 4,422,871	12-1983	Schirmer et al.	71/120
	✓	US- 4,975,453	12-04-1990	Becker, et al.	514/456
	✓	US- 5,006,512	04-09-1991	Ohnishi	514/21
	✓	US- 5,215,985	06-01-1993	Murphy, et al.	514/212
	✓	US- 5,234,947	08-10-1993	Cherksey	514/449
	✓	US- 5,242,947	09-07-1993	Cherksey, et al.	514/628
	✓	US- 5,310,932	05-10-1994	Atwal, et al.	548/454
	✓	US- 5,328,830	07-12-1994	Janis, et al.	435/21
	✓	US- 5,356,775	10-18-1994	Herbert, et al.	435/6
	✓	US- 5,401,758	03-28-1995	Atwal, et al.	514/353
	✓	US- 5,401,848	03-28-1995	Atwal	546/153
	✓	US- 5,451,580	09-19-1995	Murphy, et al.	514/212
	✓	US- 5,453,421	09-26-1995	Atwal, et al.	514/100
	✓	US- 5,486,515	01-23-1996	Brown, et al.	514/229.8
	✓	US- 6,015,822	01-12-2000	Brendel et al.	514/357
	✓	US- 6,083,986	07-04-2000	Castle, et al.	514/586
TNT	✓	US- 6,333,337	12-25-2001	Gross, et al.	514/307

Examiner
Signature

W. Brown

Date
Considered

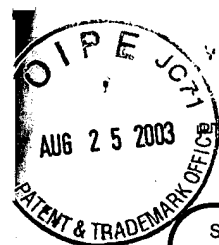
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PTO/SB/08A (10-01)

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 2 of 4

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Application Number	10/004,867
Filing Date	December 7, 2001
First Named Inventor	Serge Beaudoin, et al.
Group Art Unit	1614
Examiner Name	TBA
Attorney Docket Number	4208.00034

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RECEIVED**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
TNT	✓	0 286 278	10-1988	EP		
	✓	0 317 321	5-1989	EP		
	✓	0 321 175	8-1989	EP		
	✓	0 472 053	2-1992	EP		
	✓	0 488 616	6-1992	EP		
	✓	0 587 180	3-1994	EP		
	✓	0 608 858	8-1994	EP		
	✓	0915087	5-1999	EP		
	✓	95/18617	7-1995	WO		
	✓	95/26342	10-1995	WO		
	✓	97/25983	7-1997	WO		
	✓	97/26300	7-1997	WO		
TNT	✓	9937607	7-1999	WO		

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		Application Number	10/004,867
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Filing Date	December 7, 2001
		First Named Inventor	Serge Beaudoin, et al.
		Group Art Unit	1614 1624
		Examiner Name	TBA
		Attorney Docket Number	4208.00034
Sheet	3	of	4

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
JMT	1. ✓	Still, et al., "Rapid Chromatographic Technique for Preparative Separation with Moderate Resolution," J. Org. Chem., Vol. 43, No. 14, 1978, 2923-2925.	
	2. ✓	Castle, et al., "Characterization of 4-Aminopyridine Block of the Transient Outward K ⁺ Current in Adult Rat Ventricular Myocytes," The Journal of Pharmacology and Experimental, Vol. 264, No. 3, 1450-1459 (1993).	
	3. ✓	Deal, et al., "Molecular Physiology of Cardiac Potassium Channels," Physiological Reviews, Vol. 76, No. 1, Jan. 1996, 49-67.	
	4. ✓	Wang, et al., "Sustained Depolarization-Induced Outward Current in Human Atrial Myocytes, Evidence for a Novel Delayed Rectified K ⁺ Current Similar to Kv1.5 Cloned Channel Current," Circulation Research, Vol. 73, No. 6, Dec. 1993, 1061-1076.	
	5. ✓	Hamill, "Improved Patch-Clamp Techniques for High-Resolution Current Recording from Cells and Cell-Free Membrane Patches," Pflüger, Archiv, (1981) 391:85-100.	
	6. ✓	Fedida, et al., "Identity of a Novel Delayed Rectifier Current From Human Heart with a Cloned K ⁺ Channel Current," Circulation Research, Vol. 73, No. 1, July 1993, 210-216.	
	7. ✓	Chandy, et al., "Voltage-Gated Potassium Channels Are Required For Human T. Lymphocyte Activation," J. Exp. Med., Vol. 160, Aug. 1984, 369-385.	
	8. ✓	Sanguinetti, "Modulation of Potassium Channels by Antiarrhythmic and Antihypertensive Drugs," Hypertension, Vol. 19, No. E, March 1992, 228-236.	
	9. ✓	Lynch, et al., "Therapeutic Potential of Modulating Potassium Currents in the Diseased Myocardium," The FASEB Journal, Vol. 6, Aug. 1992, 2952-2960.	
	10. ✓	Colatsky, et al., "Channel Specificity in Antiarrhythmic Drug Action," Circulation, Vol. 82, No. 6, Dec. 1990-2235-2242.	
	11. ✓	Halliwel, "K ⁺ Channels in the Central Nervous System," 348-381 (1988).	
	12. ✓	Amos, et. al. "Differences Between Outward Currents of Human Atrial and Subepicardial Ventricular Myocytes," Journal of Physiology, (1986), 491.1, 31-50.	
	13. ✓	Wang, et al., "Effects of Flecanide, Quinidine, and 4-Aminopyridine on Transient Outward and Ultrarapid Delayed Rectifier Currents in Human Atrial Myocytes," The Journal of Pharmacology and Experimental Therapeutics, Vol. 272, No. 1, 184-196 (1995).	
	14. ✓	Lin, et al., "Voltage-Gated Potassium Channel Regulate Calcium-dependent Pathways Involved in Human T Lymphocyte Activation," J. Exp. Med., Vol. 177, 637-645 (1993).	
	15. ✓	Kaczorowski, et al., "Lymphocyte Ion Channels as a Target for Immunosuppression," Perspective in Drug Discovery and Design 2 (1994) 233-248.	

Examiner Signature		Date Considered	11/17/03
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First Named Inventor	Serge Beaudoin, et al.
Group Art Unit	1011 1624
Examiner Name	TBA
Attorney Docket Number	4208.00034

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
JM	16. ✓	Leonard, et al., "Selective Blockers of Voltage-Gated K ⁺ Channels Depolarize Human T Lymphocytes: Mechanism of the Antiproliferative Effect of Charybdotoxin", Vol. 89, 10094-10098, Nov. 1992.	
	17. ✓	Doupnik, et al., "The Inward Rectifier Potassium Channel Family," Current Opinion in Neurobiology, 1995, 5:268-277.	
	18. ✓	Chandy, et al., "Voltage-Gated Potassium Channel Genes," Handbook of Receptors and Channels, 1-71 (1995).	
	19. ✓	Epps et al., "Chemistry and Physics of Lipids, 69 (1994) pp. 137-150.	
	20. ✓	WO 95-18617 Abstract, COHEN ET AL., 1995.	
	21. ✓	Chem. Abs., Vol. 104, No. 9 Abs, No. 68632 (03/03/86).	
	22. ✓	International Search Report PCT/US97/12559, 1997.	
	23. ✓	Dialog Web Output, Derwent World Patents Index, Records for: pn=EP 915087, 2001.	
	24. ✓	International Search Report PCT/US 00/34765, 2000.	
not available	25.	International Search Report dated July 2002	
	26.	Gisbert Schneider, et al. "Virtual Screening for Bioactive Molecules by Evolutionary De Novo Design", Angewandte Chemie, International Edition (200), 39(22), 4130-4133, (2000).	

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